Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1 IS&R	L1	1775	(382/115,116,124,181, 186,187,188,190).CCLS	USPAT	2004/05/1 0 08:44			0
2 IS&R	L2	149	(713/186).CCLS.	USPAT	2004/05/1 0 08:45			0
3 IS&R	L3	41	(902/3).CCLS.	USPAT	2004/05/1 0 08:45			0
4 BRS	L4	97	(pen or stylus) same (authentic$6 or verif$6 or check$3) same (biometric$1 or finger$1 or fingerprint$3)	USPAT	2004/05/1 0 08:46			0
5 BRS	L5	35	4 same (surface or paper or pad or tablet)	USPAT	2004/05/1 0 08:46			0
6 BRS	L6	3	1 and 5	USPAT	2004/05/1 0 08:48			0
7 BRS	L8	0	3 and 5	USPAT	2004/05/1 0 08:48			0
8 BRS	L7	3	2 and 5	USPAT	2004/05/1 0 08:48			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	IS&R	L1	314	(382/313,314).CCLS.	USPA T	2004/05/1 0 11:57			0
2	BRS	L2	97	(pen or stylus) same (authentic$6 or verif$6 or check$3) same (biometric$1 or finger$1 or fingerprint$3)	USPA T	2004/05/1 0 11:58			0
3	BRS	L3	35	2 same (pad or tablet or surface or paper)	USPA T	2004/05/1 0 11:58			0
4	BRS	L4	0	1 and 3	USPA T	2004/05/1 0 11:58			0

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The **"AND"** operator is unnecessary -- we include all search terms by default. [details]

Web   Results **1 - 10** of about **8,170** for **verification and finger and pen** . (**0.12** seconds)

Instant **finger** print **pen** takes child **finger** prints anyware and on ...
... put on your skinned knee or cut **finger**. ... manufacturing and selling my **pen** brands, click ... biometrics, fingerprint form, fingerprint **verification**, fingerprint scan ...
www.**finger**print**pen**.com/about.htm - 83k - Cached - Similar pages

Go Go Gadget Comdex
... as a "handheld data collector." Passing the C-**Pen's** tip over ... over from spy novels to small offices' identity **verification** through **finger** scans, voice ...
www.entrepreneur.com/mag/article/ 0,1539,267946----2-,00.html - 30k - Cached - Similar pages

[PPT] Biometrics: Are you who you say you are?
File Format: Microsoft Powerpoint 97 - View as HTML
... type records the position of the pores on the **finger**. ... Signature **Verification** - dynamic signature **verification** (DSV ... Measures: angle at which the **pen** is held; the ...
www.eprison.us/pdx/download_files/ presentations/Biometrics1.ppt - Similar pages

Specialty Products from Interlink Electronics - Press Coverage
... input for handwriting recognition and signature **verification**. Actually, one doesn't even need a **pen**. The pressure sensor translates **finger**-drawn characters ...
www.interlinkelec.com/media/coverage/page09.htm - 43k - Cached - Similar pages

[DOC] Wireless Data Standards - Biometrics
File Format: Microsoft Word 2000 - View as HTML
... Hand and **finger** geometry applications include verifying air ... signature **verification** and handwriting **verification** are automated ... and how often the **pen** is lifted ...
www.pswn.gov/admin/librarydocs11/ Biometrics_Technologies.doc - Similar pages

Visual Input for **Pen**-Based Computers
... Bernard, and J. Coutaz, "**Finger** Tracking as ... Approaches to Handwritten Signature **Verification**," Computer Processing ... Munich, "Visual Input for **Pen**-based Computers ...
portal.acm.org/ citation.cfm?id=507478&dl=ACM&coll=portal&CFID=11111111&CFTOKEN=2222222 - Similar pages

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... Bernard, and J. Coutaz, "**Finger** Tracking as ... Approaches to Handwritten Signature **Verification**," Computer Processing ... Perona, Visual input for **pen**-based computers ...
portal.acm.org/ citation.cfm?
id=507478&dl=ACM&coll=GUIDE&CFID=11111111&CFTOKEN=2222222 - Similar pages
[More results from portal.acm.org]

128mb Usb Flash Thumb Key Jump **Pen** Disk Drive 128
... Trek Thumbdrive USB **Pen** Key Drive Fingerprint Not Sony. ... me, 2000 supply usb light and **finger** on **verification** mass except touch, it Features supply required ...
www.exploretheuniverse.net/
server/leaf27.51074.128MB.USB.FLASH.THUMB.KEY.JUMP.PEN.DISK.DRIVE.128.shtml - 28k - Cached - Similar pages

h   g   g e c   e ch   e f c   f ge   e   h e   e

Semtech -
... The IC supports both **finger** and **pen** input. ... **pen** control, including support for **Pen**
Windows ® and ... for handwriting recognition, signature **verification** and other ...
www.semtech.com/
news/news_show.asp_Q_PressID_E_108_A_Archive_E_Product+Announcements+2000+Archives_A_Dept... -
31k - Cached - Similar pages

Scrawl.com - Products and Company sites
... Signature **Verification** systems, primarily to the banking industry". Symbios/Scriptel's
WriteTouch : "cordless digital **pen** product enabling both **pen** and **finger** ...
www.scrawl.com/scr/products.html - 20k - Cached - Similar pages

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Result Page: **1** 2 3 4 5 6 7 8 9 10   **Next**

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The **"AND"** operator is unnecessary -- we include all search terms by default. [details]

Web

Results **11 - 20** of about **8,380** for **verification and finger and pen** . (**0.58** seconds)

PCs | Wacom Intuos Graphics Tablet **Pen** Usb
... Tired of cursive writing the **finger** it using ... let installing the When navigating, i-**pen**
instead ... 110x65x35 ergonomically designed signature **verification** uk p 50 ...
www.exploretheuniverse.net/ 9900/7713%2039980%20Wacom%20Intuos%20Graphics%20Tablet%20Pen%
20Usb.htm - 24k - Cached - Similar pages

[PPT] User **Verification** System
File Format: Microsoft Powerpoint 97 - View as HTML
... **Finger** print. biomouse Fingerprint scanner. Digital. Camera. LCD **Pen**. tablet. Microphone.
Multi-modality Biometric Authentication. Embeded & Hybrid User **Verification** ...
csis.pace.edu/~ctappert/cs631-02/slides5.ppt - Similar pages

[PDF] Graduate Course Development in Biometrics
File Format: PDF/Adobe Acrobat - View as HTML
... community listserv on the "gummy **finger**" debate [1 ... first experiment involves dynamic
signature **verification** as it ... with a digitizer that uses **pen** and paper. ...
www.asee.org/conferences/international/ papers/elliott.pdf - Similar pages

Handbook of Information Security Management:Access Control
... not sufficiently unique for accurate **verification**, but combined ... Two-**finger** geometry
is a recently marketed ... speed, direction, and pressure of **pen** strokes), and ...
www.cccure.org/Documents/HISM/037-039.html - 9k - May 9, 2004 - Cached - Similar pages

Datamind offer Mobile **Pen** Scanners, Digital Pens, Scanners ...
... user has to perform a simple but accurate authentication process - by placing his/her
finger on the biometric sensor and invoke the fingerprint **verification**. ...
www.datamind.co.uk/merchant/thumbdrive_touch.htm - 42k - Cached - Similar pages

eBay - Weird Stuff, Everything Else, Slightly Unusual, and Totally ...
... Lighter~~, ~~Green Flame Talking Middle **Finger** Lighters Lighter ... Lighter/Lighters~LOOK~,
~Green Flame **PEN** Torch Lighter ... CRIMINAL RECORD, SS#, CREDIT **VERIFICATION** CD ...
everythingelse.listings.ebay.com/ Weird-
Stuff_W0QQfromZR2QQsacategoryZ1466QQsbrsrtZlQQsocmdZListingItemLis... - 101k - Cached - Similar pages

[PDF] BACOB Bank Introduces Telephone Banking With Speaker **Verification**
File Format: PDF/Adobe Acrobat - View as HTML
... For example, the firm says, biomet- ric **verification** can be ... smartcard readers, display
and biometric **finger**- print readers ... The SMART- **pen** is billed as the world ...
www.biodigest.com/BiometricDigest/ BackIssues/199906.pdf - Similar pages

[PDF] Biometrics: The Password You'll Never Forget
File Format: PDF/Adobe Acrobat - View as HTML
... rely either on a special tablet or a special **pen**. ... the biometric process in detail
for **verification** of identity ... below and in Figure 1. Capture: The **finger** to be ...
21cfrpart11.com/files/library/compliance/lcgc10_00.pdf - Similar pages

Pen Computing Magazine: Handheld Developer Information Resource
... Phone: 510-249-6900 Power **Pen** Pal 5.3 Powerful integrated **pen** development environment

h   g   g e c   e   ch   e f c   f ge   e   h e   e

including form designer, database, and ... Cross-platform **verification**. C++. ...
www.**pen**computing.com/developer/ - 20k - May 8, 2004 - Cached - Similar pages

[PDF] On-line Handwritten Signature **Verification** Using Hidden Markov ...
File Format: PDF/Adobe Acrobat - View as HTML
... stroke order, off-tablet motion, **pen** pressure and ... an optimized high performance signature
verification system and ... unique body features (eg **finger**- prints, iris ...
bips.bi.ehu.es/ahoweb/files/publicaciones/ ON_LINE_SIG.pdf - Similar pages

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Web   Results **21 - 30** of about **8,380** for **verification and finger and pen** . (**0.21** seconds)

SecurityFocus HOME Infocus: Exploiting Cisco Routers: Part 1
... User Access **Verification** Username ... If **finger** is running, usernames can be gathered,
but the ... out a legitimate user account will likely stop most **pen** testers from ...
www.securityfocus.com/infocus/1734 - 42k - Cached - Similar pages

[PPT] User Interface Software & Technology
File Format: Microsoft Powerpoint 97 - View as HTML
... Passive (same as using a **finger**). Active (**pen** provides some signal). ... (2 modes) visible
mode switch. (1.5 modes) special **pen** action switches. ... Signature **verification**. ...
www.cc.gatech.edu/classes/AY2003/cs4470_fall/ lectures/lecture23-**pen**-input.ppt - Similar pages

Comware Pty Ltd - Mobile Computing
... Point-of-Sale ("POS") Terminal; Inventory; Shelf Price **Verification**; Planograms;
Reordering; ... various screen sizes; mono & colour; **pen** or **finger** operation; rugged ...
www.comwareptyltd.com.au/mobile_computer_nf.htm - 28k - Cached - Similar pages

Kiosk Enabling Technology
... The IC supports both **finger** and **pen** input. ... mode **pen** control, including support for
Pen Windows(R ... for handwriting recognition, signature **verification** and other ...
www.kiosks.org/newsbits/2000/040700e.htm - 8k - Cached - Similar pages

Biometric Dictionary
... 7. **Finger** Geometry A physical biometric that analyses the ... Signature **Verification** A
behavioral biometric that analyses the way an ... by a hand holding a **pen** are as ...
www.senseme.com/scripts/biometrics/ biometricdictionary.htm - 44k - Cached - Similar pages

findBIOMETRICS.com - Understanding Signature **Verification**
... Dynamic signature **verification** technology uses the behavioral biometrics of a hand
written ... This is done by analyzing the shape, speed, stroke, **pen** pressure and ...
www.findbiometrics.com/Pages/signature%20articles/ signature_1.html - 18k - Cached - Similar pages

CMP Article
... exciting are high-volume vertical-market applications that use CIC signature **verification**
and digital ink ... Both the cordless **pen** and **finger** touch worked ...
hwr.nici.kun.nl/**pen**-computing/ cmp-media/april-15-1996.html - 18k - Cached - Similar pages

BNX Systems Corporation - Biometric Authentication Partners
... **Finger**. ... Communication Intelligence Corporation (CIC) supplies **pen**-based software ... handwriting
recognition systems, dynamic signature **verification**, ink compression ...
www.bionetrix.com/partnerships.asp - 37k - Cached - Similar pages

[PDF] Proceedings of MASPLAS'02
File Format: PDF/Adobe Acrobat - View as HTML
... 70% of the market share which includes **Finger**-Scan, Voice ... User **Verification** Types
Handwriting A Java applet is developed to ... samples we using a LCD **pen** Tablet. ...
csis.pace.edu/csis/masplas/p11.pdf - Similar pages
[More results from csis.pace.edu]

h   g g e c   e ch   e f c   f ge   e   h e   e

eBay - Weird Stuff, Everything Else, Slightly Unusual, and Totally ...
... GAG GIFT!~FREE S&H, Shocking Shock **Pen** Pens~GAG ... **Finger** Torch Lighter ~~~UNIQUE, Talking Middle **Finger** Torch Lighter ... CRIMINAL RECORD, SS#, CREDIT **VERIFICATION** CD! ...
everythingelse.listings.ebay.com/ Weird-
Stuff_W0QQfromZR4QQlopgZ2QQsacategoryZ1466QQsocmdZListingItemListQ... - 101k - Cached -
Similar pages
[More results from everythingelse.listings.ebay.com]

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Web

Results **31 - 40** of about **8,380** for **verification and finger and pen** . (**0.28** seconds)

[PDF] Multi-Expert **Verification** of Hand-Written Signatures
File Format: PDF/Adobe Acrobat - View as HTML
... Physical characteristics can be obtained from **finger**-print, palm ... Section 6. 2. Multi-expert
Signature **Verification** In this ... position of the tip of the **pen** on the ...
www.csc.liv.ac.uk/~prima/ICDAR2003/ Papers/0171_546_bovino_I.pdf - Similar pages

[PDF] Standards for Biometric Identification
File Format: PDF/Adobe Acrobat - View as HTML
... The dynamic movement of the **pen** is described by ... **Finger** scan is the most popular technique
and accounts ... eye scan (11 percent), speaker **verification** (11 percent ...
www.comsoc.org/ci/private/2001/jan/pdf/sherif.pdf - Similar pages

Quintet Inc.: SignCrypt: Biometric **Verification**
... a static record of where the **pen** happened to ... are a number of types of biometric **verification**
of which ... a camera; Fingerprint - the user presents his **finger** to a ...
ourworld.compuserve.com/homepages/pagrosse/j02a.htm - 24k - May 8, 2004 - Cached - Similar pages

virginia.edu: Spring 1999 -
... and nicks could cause problems with a **finger** scan. ... are often referred to as dynamic
signature **verification** (DSV) and ... and the number of times the **pen** is lifted ...
www.itc.virginia.edu/virginia.edu/ spring99/newtech/home.html - 30k - May 9, 2004 - Cached - Similar pages

Interlink Electronics, VersaPad Input Pad Technology
... text input, signature capture and biometric signature **verification**. ... typically incapable
of supporting **pen** input capability. ... about half the weight of a **finger**). ...
www.interlinkelec.com/technology/page02.htm - 9k - Cached - Similar pages
[More results from www.interlinkelec.com]

[PDF] HIGHLIGHTS OF THE YEAR
File Format: PDF/Adobe Acrobat
... be input rapidly and simply at the touch of a **finger** or **pen**. ... We also anticipate development
of new signature **verification** systems, store management systems ...
www.necinfrontia.co.jp/company/ir/pdf_anyu02/07.pdf - Similar pages

[PDF] Ergonomic Analysis of **Pen** Comfort and Wrist Dynamics While Wri
File Format: PDF/Adobe Acrobat - View as HTML
... for hand writing analysis, character recognition, signature **verification** and writer ... to
study the effect of hand/**finger** grasp on applied **pen** pressures while ...
www.drergonomics.com/ articles/Ergonomic%20Evaluation%20of%20Pen%20Design%20and%20Wrist%
20Dynamics%20while... - Similar pages

[PDF] CONTENTS
File Format: PDF/Adobe Acrobat - View as HTML
... Performance of Successive Aimed **Pen** Movements 99 ... E. STELMACH Targeted Isometric Index
Finger Force Production ... Free Handwriting Signature **Verification** 220 Julio ...
www.igs2003.com/Proceedings_contents.pdf - Similar pages

[PDF] 1999 Glossary of Biometric Terms

File Format: PDF/Adobe Acrobat - <u>View as HTML</u>
... of Biometric Terms page 11 7. **Finger** Geometry A ... Signature **Verification** A behavioural
biometric that analyses the way an ... exerted by a hand holding a **pen** are as ...
www.afb.org.uk/downloads/glossary.pdf - <u>Similar pages</u>

<u>A Review of Dynamic Handwritten Signature **Verification** - Gupta ...</u>
... other biometric authentication techniques eg **finger** prints or ... Lorette - 1984 1 line
Signature **Verification** (context) - Farag ... A Study of Some **Pen** Motion Features ...
citeseer.ist.psu.edu/gupta97review.html - 25k - <u>Cached</u> - <u>Similar pages</u>

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JNL = Journal or Magazine   **CNF** = Conference   **STD** = Standard

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1 **An HMM online signature verifier incorporating signature trajectori¢**
Muramatsu, D.; Matsumoto, T.;
Document Analysis and Recognition, 2003. Proceedings. Seventh Internationa
Conference on , 3-6 Aug. 2003
Pages:438 - 442 vol.1

[Abstract]   [PDF Full-Text (1713 KB)]   **IEEE CNF**

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2 **Signature verification using ART-2 neural network**
Mautner, P.; Rohlik, O.; Matousek, V.; Kempf, J.;
Neural Information Processing, 2002. ICONIP '02. Proceedings of the 9th
International Conference on , Volume: 2 , 18-22 Nov. 2002
Pages:636 - 639 vol.2

[Abstract]   [PDF Full-Text (495 KB)]   **IEEE CNF**

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3 **Biometric hash based on statistical features of online signatures**
Vielhauer, C.; Steinmetz, R.; Mayerhofer, A.;
Pattern Recognition, 2002. Proceedings. 16th International Conference
on , Volume: 1 , 11-15 Aug. 2002
Pages:123 - 126 vol.1

[Abstract]   [PDF Full-Text (318 KB)]   **IEEE CNF**

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4 **Dynamic biometric person authentication using pen signature trajectories**
Sakamoto, D.; Kondo, M.; Morita, H.; Muramatsu, D.; Sasaki, M.; Matsumotc
Neural Information Processing, 2002. ICONIP '02. Proceedings of the 9th
International Conference on , Volume: 4 , 18-22 Nov. 2002
Pages:2078 - 2082 vol.4

[Abstract]   [PDF Full-Text (320 KB)]   **IEEE CNF**

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5 A proposal of writer verification of hand written objects
Kato, Y.; Hamamoto, T.; Hangai, S.;
Multimedia and Expo, 2002. ICME '02. Proceedings. 2002 IEEE International
Conference on , Volume: 2 , 26-29 Aug. 2002
Pages:585 - 588 vol.2

[Abstract]   [PDF Full-Text (485 KB)]   **IEEE CNF**

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6 On-line signature verification system using probabilistic feature modelling
Kiran, G.V.; Kunte, R.S.R.; Samuel, S.;
Signal Processing and its Applications, Sixth International, Symposium on.
2001 , Volume: 1 , 13-16 Aug. 2001
Pages:355 - 358 vol.1

[Abstract]   [PDF Full-Text (360 KB)]   **IEEE CNF**

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7 User interface for a PCS smart phone
Narayanaswamy, S.; Jianying Hu; Kashi, R.;
Multimedia Computing and Systems, 1999. IEEE International Conference
on , Volume: 1 , 7-11 June 1999
Pages:777 - 781 vol.1

[Abstract]   [PDF Full-Text (464 KB)]   **IEEE CNF**

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8 Low cost dynamic signature verification system
Hamilton, D.J.; Whelan, J.; McLaren, A.; MacIntyre, I.; Tizzard, A.;
Security and Detection, 1995., European Convention on , 16-18 May 1995
Pages:202 - 206

[Abstract]   [PDF Full-Text (492 KB)]   **IEE CNF**

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9 The handwritten signature in pen computing
Smithies, C.P.K.;
Handwriting and Pen-Based Input, IEE Colloquium on , 1994
Pages:2/1 - 2/3

[Abstract]   [PDF Full-Text (196 KB)]   **IEE CNF**

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1 **Combination of Hyperbolic Functions for Multimodal Biometrics Dat:
Fusion**
Toh, K.-A.; Yau, W.-Y.;
Systems, Man and Cybernetics, Part B, IEEE Transactions on , Volume: 34 , I
2 , April 2004
Pages:1196 - 1209

[Abstract]   [PDF Full-Text (856 KB)]   **IEEE JNL**

2 **A reduced multivariate polynomial model for multimodal biometrics
classifiers fusion**
Toh, K.-A.; Wei-Yun Yau; Xudong Jiang;
Circuits and Systems for Video Technology, IEEE Transactions on , Volume:
14 , Issue: 2 , Feb. 2004
Pages:224 - 233

[Abstract]   [PDF Full-Text (448 KB)]   **IEEE JNL**

3 **Biometric verification using thermal images of palm-dorsa vein patt**
Chih-Lung Lin; Kuo-Chin Fan;
Circuits and Systems for Video Technology, IEEE Transactions on , Volume:
14 , Issue: 2 , Feb. 2004
Pages:199 - 213

[Abstract]   [PDF Full-Text (832 KB)]   **IEEE JNL**

4 **Quantifying and recognizing human movement patterns from mono
video images-part II: applications to biometrics**
Green, R.D.; Ling Guan;
Circuits and Systems for Video Technology, IEEE Transactions on , Volume:

h   eee   e eee   g e ch e ch e   e   e   b   e   c   f ge

14 , Issue: 2 , Feb. 2004
Pages:191 - 198

[Abstract]   [PDF Full-Text (728 KB)]   **IEEE JNL**

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5 Quantifying and recognizing human movement patterns from mono video Images-part I: a new framework for modeling human motion
Green, R.D.; Ling Guan;
Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 14 , Issue: 2 , Feb. 2004
Pages:179 - 190

[Abstract]   [PDF Full-Text (856 KB)]   **IEEE JNL**

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6 Fast Fingerprint Verification Using Subregions of Fingerprint Image
Chan, K.C.; Moon, Y.S.; Cheng, P.S.;
Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 14 , Issue: 1 , Jan. 2004
Pages:95 - 101

[Abstract]   [PDF Full-Text (1136 KB)]   **IEEE JNL**

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7 Likelihood-Ratio-Based Biometric Verification
Bazen, A.M.; Veldhuis, R.N.J.;
Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 14 , Issue: 1 , Jan. 2004
Pages:86 - 94

[Abstract]   [PDF Full-Text (472 KB)]   **IEEE JNL**

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8 Directional Filter Bank-Based Fingerprint Feature Extraction and Matching
Park, C.-H.; Lee, J.-J.; Smith, M.J.T.; Park, S.-I.; Park, K.-H.;
Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 14 , Issue: 1 , Jan. 2004
Pages:74 - 85

[Abstract]   [PDF Full-Text (2112 KB)]   **IEEE JNL**

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9 Hiding biometric data
Jain, A.K.; Uludag, U.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume: 25 , Issue: 11 , Nov. 2003
Pages:1494 - 1498

[Abstract]   [PDF Full-Text (560 KB)]   **IEEE JNL**

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